



APPROVAL OF WELDING CONSUMABLES CERTIFICATE
No. QBI018422WT/001

This is to certify that the following product, in view of the tests carried out, has been approved.

<i>Description</i>	Covered electrodes for manual welding
<i>Type</i>	TNM-9
	UP H5 BASIC COVERING
<i>Class</i>	UP H5
<i>Applicant</i>	TIEN TAI ELECTRODE CO., LTD NO. 6 KAIFA 4TH RD., RENDE DIST., Tainan TAIWAN
<i>Reference standards</i>	Part D, Chapter 5, Section 2 of RINA Rules for the classification of ships
<i>Reference documents</i>	RINA RULES FOR THE TYPE-APPROVAL OF COMPONENTS OF COMPOSITE MATERIALS INTNDED FOR HULL CONSTRUCTION

The approval is valid for one year and can be reconfirmed subject to the satisfactory outcome of the prescribed control tests.

Issued in **RINA Hong Kong Marine** on **January 10, 2023**. This Certificate is valid until **December 9, 2023**



Huang Chao Pin
ON BEHALF OF

RINA Services S.p.A.

Fu Guo Chen

HUANG Chao Pin

Marine Surveyor

RINA Services S.p.A.

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This certificate consists of this page and 1 enclosure

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TNM-9

Class	TNM-9, UP H5
Diameters	2.6, 3.2 & 4.0 mm mm
Welding positions	all positions excluding vertical in downward direction
Type of current	AC/DC
Notes	Welding of 9% Ni alloy steel, Test specification as per document no . TQI-200401 dated 27/04/2020. Minimum average energy of 34J at -196deg.C specified for Charpy-V notch specimens on deposited metal and butt weld joint.

**RINA Hong Kong Marine January
10, 2023**